HITACHI

Inspire the Next

SERVICE MANUAL

ATSC NTSC

DW3-C CHASSIS

PA No. 0232

P42H401A / DW3-C
P42H4011A / DW3-C
P42T501A / DW3-C

R/C: CLU-4371UG2	p/n HL02075	P42H401A
R/C: CLU-4372UG2	p/n HL02076	P42H4011A
R/C: CLU-4371A	p/n HL02401	P42T501A

This ADDENDUM is made due to the new models P42H401A (DW3C), P42T501A (DW3C) and P42H4011A (DW3C). They are different to models P42H401 (DW3C), P42T501 (DW3C) and P42H4011 (DW3C). The Main difference is the Panel, the "A" models use "AE1V" Plasma Panel and the non "A" H/T Models use "A5" & "AE1" Plasma Panel. Dimensions of both Family models are SAME.
Refer to Service Manual **PA0225** when servicing "A" models in regards to other adjustments not covered in this addendum. This ADDENDUM indicates only the differences and special considerations to be taken when servicing the "A" models.

TO GO TO A CHAPTER, CLICK ON ITS HEADING BELOW

CONTENTS

CONNECTOR DIAGRAMS 2
FINAL WIRING DIAGRAM 3
PARTS LIST DIFFERENCE ..... 4 Updated Jan 18, 08
PWBs “TOP LAYER” ..... 5 Updated Nov 30, 07
PANEL PWBs ..... 6 Updated Dec 11, 07
CONNECTOR PART NUMBERS 7
QUICK REFERENCE PARTS LIST 8
BLOCK DIAGRAM (DIGITAL MODULE) ..... 9 Added Feb 09, 08

(Page 4) Previous Update Corrected Part Numbers for PWB Quick Reference List
(Page 4) Updated Jan 18, 2008 Added Part Numbers for Bezel Assemblies
(Page 5) Updated Nov 30, 07 Corrected Part Numbers for Digi-Main and Added PWB Layout
(Page 6) Updated Dec 11, 07 Added Part Numbers for Logic PWB
(Page 9) Added Feb 09, 08. Added Digital Module (Digi-Main) Block Diagram

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of Electric shock do not perform any servicing other than that contained in the operating instructions Unless you are qualified to do so. Before servicing this chassis, it is important that the service Technician read the “IMPORTANT SAFETY INSTRUCTIONS” in this service manual.

SAFETY NOTICE
USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by a ⚠ on the schematics and on the parts list in this Service Data and its supplements and bulletins. Before servicing the chassis, it is important that the service technician Read and follow the “Important Safety Instructions” in this Service Manual.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

Version 0232-5

PLASMA DISPLAY PANEL

SEPTEMBER 2007 HHEA-MANUFACTURING DIVISION

CONNECTION DIAGRAM

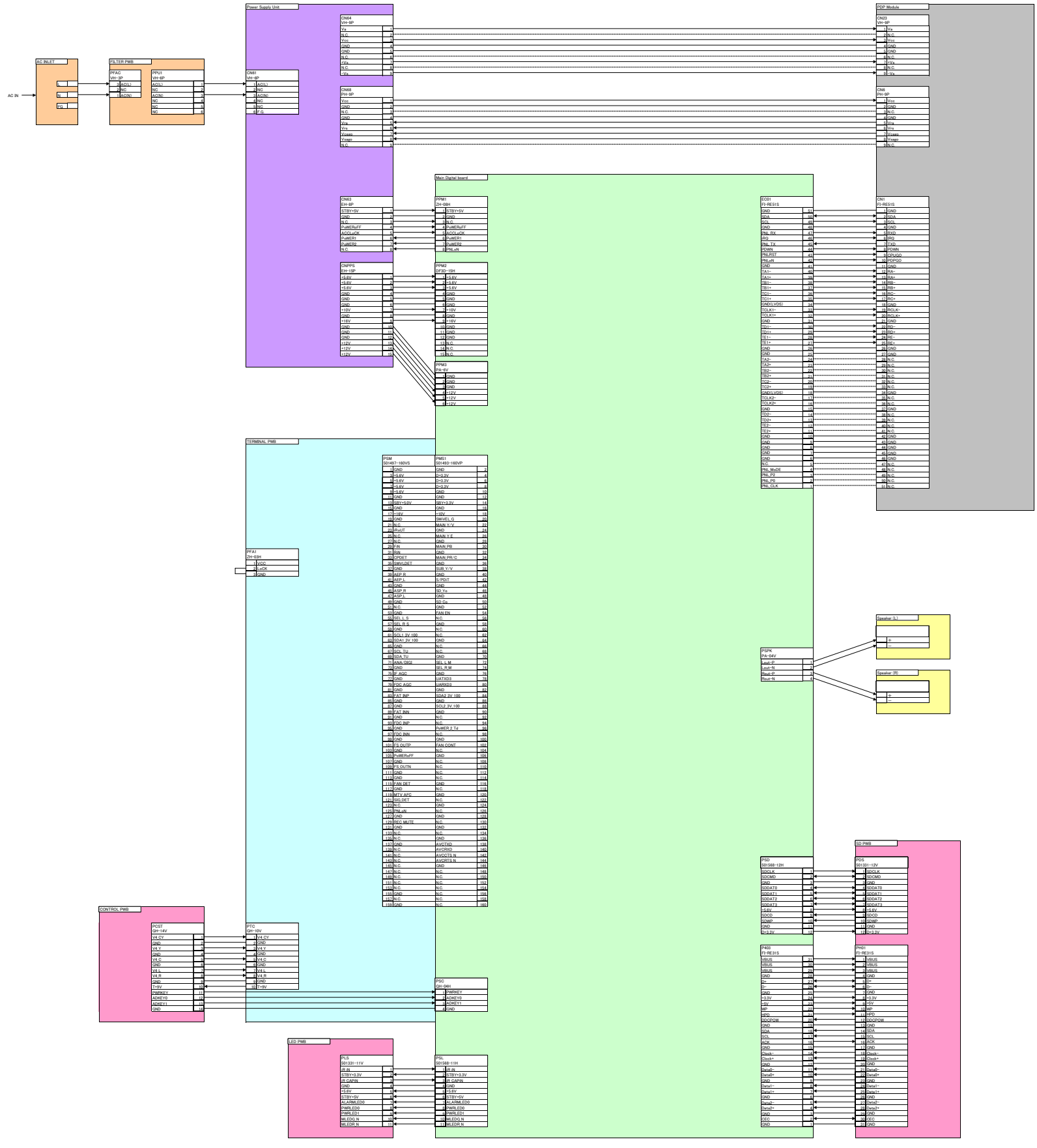


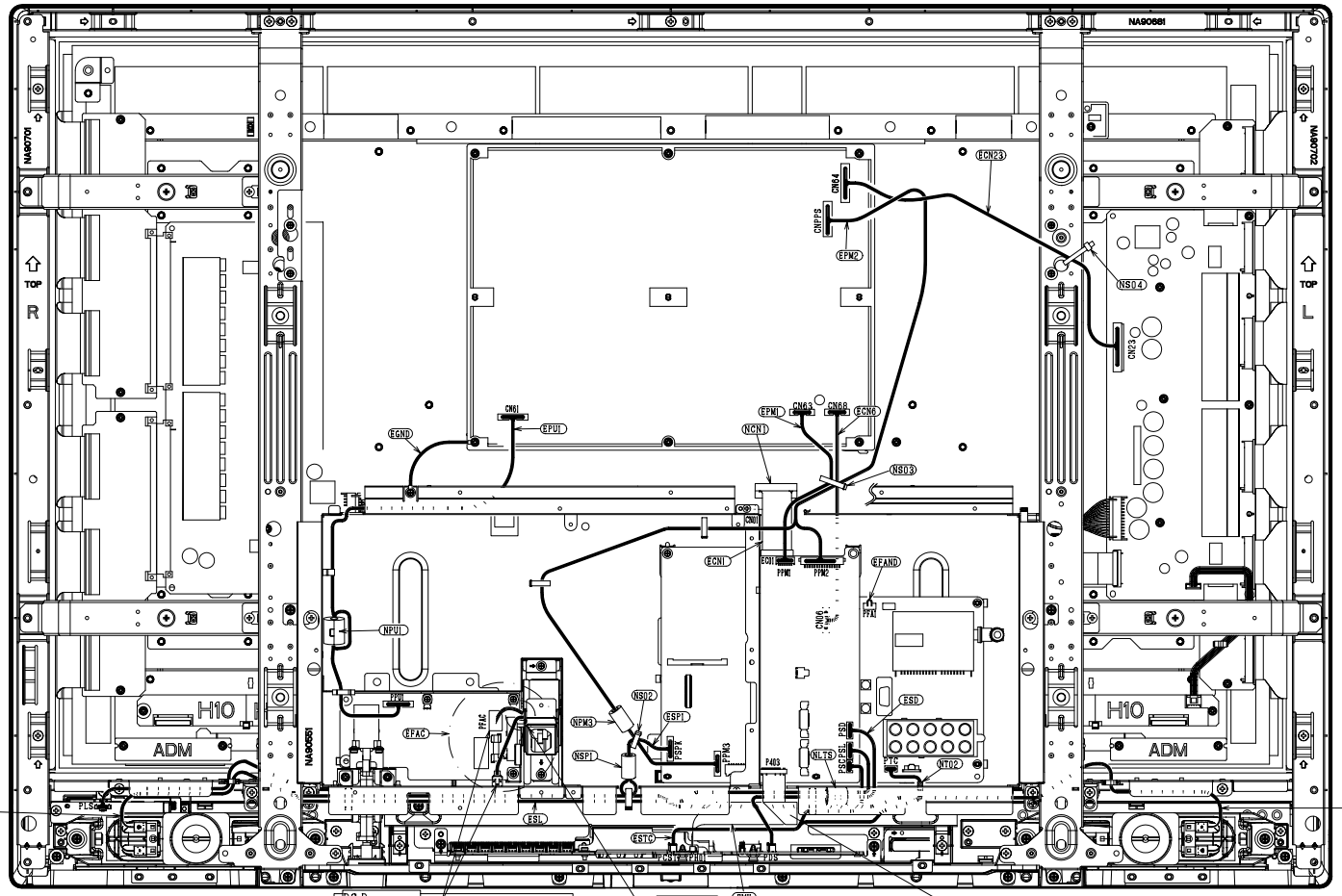
TABLE OF CONTENTS

FINAL WIRING DIAGRAM

Table of Using cable

Connector wire		Plug Pin 1		Plug Pin 2	
Name	Assy List	Board or Location	Name	Board or Location	Name
ESTC	Final Ass'y	CONTROL	PCST	TERMINAL	PTC
				SUB DIGITAL	PSC
ESL	Final Ass'y	SUB DIGITAL	PSL	LED	PLS
ESD	Final Ass'y	SUB DIGITAL	PSD	SD	PDS
EFAND	Final Ass'y	TERMINAL	PFAI	-	-
ESPI	Final Ass'y	MAIN_DIGITAL	PSPX	SP-L/R	SP-L
					SP-R
EPMI	Final Ass'y	POWER	CN63	MAIN DIGITAL	PPMI
EPM2	Final Ass'y	POWER	CNPPS	MAIN DIGITAL	PPM2
					PPM3
EPUI	Final Ass'y	POWER	CN61	FILTER	PPUI
ECN23	Final Ass'y	POWER	CN64	PANEL X-SUS	CN23
ECN6	Final Ass'y	POWER	CN68	PANEL LOGIC	CN06
ECNI	Final Ass'y	MAIN_DIGITAL	ECOI	PANEL LOGIC	CN01
EFAC	Final Ass'y	FILTER	PFAC	AC INLET	-
		CHASSIS METAL	GND		
EGND	Final Ass'y	CHASSIS METAL	-	POWER	-
EMH	Final Ass'y	MAIN_DIGITAL	P403	HDMI	PH01

※1 Regarding ECNI
insert connectors while installing Power Supply PWB in the panel.



ESPI
Color:Red/Black

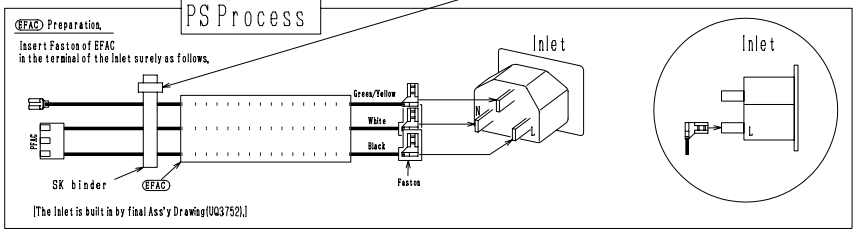
ESPI
Color:Blue/White

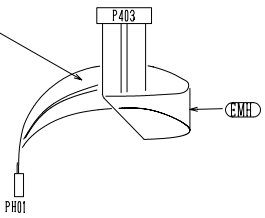
PS Process
Insert EFAC(VH and Faston Connectors) surely until locking.

Notice
Comfirm SK binder does not enter the tube.

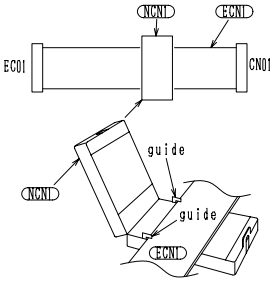
PS Process

EFAC Preparation.
Insert Faston of EFAC in the terminal of the inlet surely as follows.

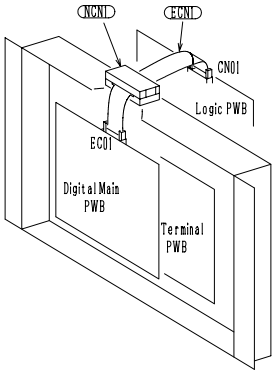




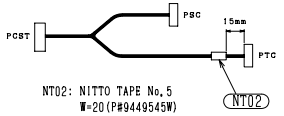
ECNI Preparation



Assemble NCNI after arranging ECNI under the guide.



ESTC Preparation



NTO2: NITTO TAPE No.5
W=20(P#9449545W)
L=50mm

TABLE OF CONTENTS

PARTS LIST DIFFERENCES & UPDATES

This table shows only part list differences and updates of P42H401A, P42T501A and P42H4011A model from non 'A' models.
Refer Service Manual PA0225 for complete Parts List.

PRODUCT SERVICE NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, carefully read the product safety notice of this service manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL	PART #	DESCRIPTION	P42H401A	P42T501A	P42H4011A
FINAL ASSEMBLY					
		MISCELLANEOUS			
A	DD00938	FPF42C128135UC-22	0	0	0
#0800	KS22126K	42MI01ME34.5% FRONT FILTER	0		0
#0800	KS22123K	42MI01ME31% FRONT FILTER		0	
		****FOR PANEL PARTS SEE NEXT PAGES**			
		CONNECTORS			
EFAND	EF26001	3P ZH CONNE. L=25MM	0	0	0
		(NO FAN FOR "A" MODELS)			

SYMBOL	PART #	DESCRIPTION	P42H401A	P42T501A	P42H4011A
ACCESSORIES					
N01	QR70194	H401 INSTRUCTION BOOK REV4	0		0
N01	QR70203	T551 INSTRUCTION BOOK		0	
N02	QR70212	H401 EASY GUIDE REV2	0		0
N02	QR70222	T551 EASY GUIDE		0	
SYM.	P#	DESCRIPTION			
#200A	QD61771	P42H401/A BEZEL ASSEMBLY	0		
#200C	QD61773	P42H4011/A BEZEL ASSEMBLY			0
#200B	QD61772	P42T501/A BEZEL ASSEMBLY		0	
	PH43281	SPEAKER GRILL L (All P42 Inch)	0	0	0
	PH43282	SPEAKER GRILL R (All P42 Inch)	0	0	0

CH 4

QUICK REFERENCE PARTS LIST FOR MAIN PARTS

Model	Chassis	Main [1] Chassis	Terminal PWB [2]	Filter PWB	Main Digital PWB [3]	Power Unit	Front Filter	PDP Panel
P42H401A	DW3C	Not Available	JP55123	JP55133	UX28023	HA02271	KS22126K	DD00938
P42T501A	DW3C	Not Available	JP55123	JP55133	UX28024	HA02271	KS22123K	DD00938
P42H4011A	DW3C	Not Available	JP55123	JP55133	UX28023	HA02271	KS22126K	DD00938

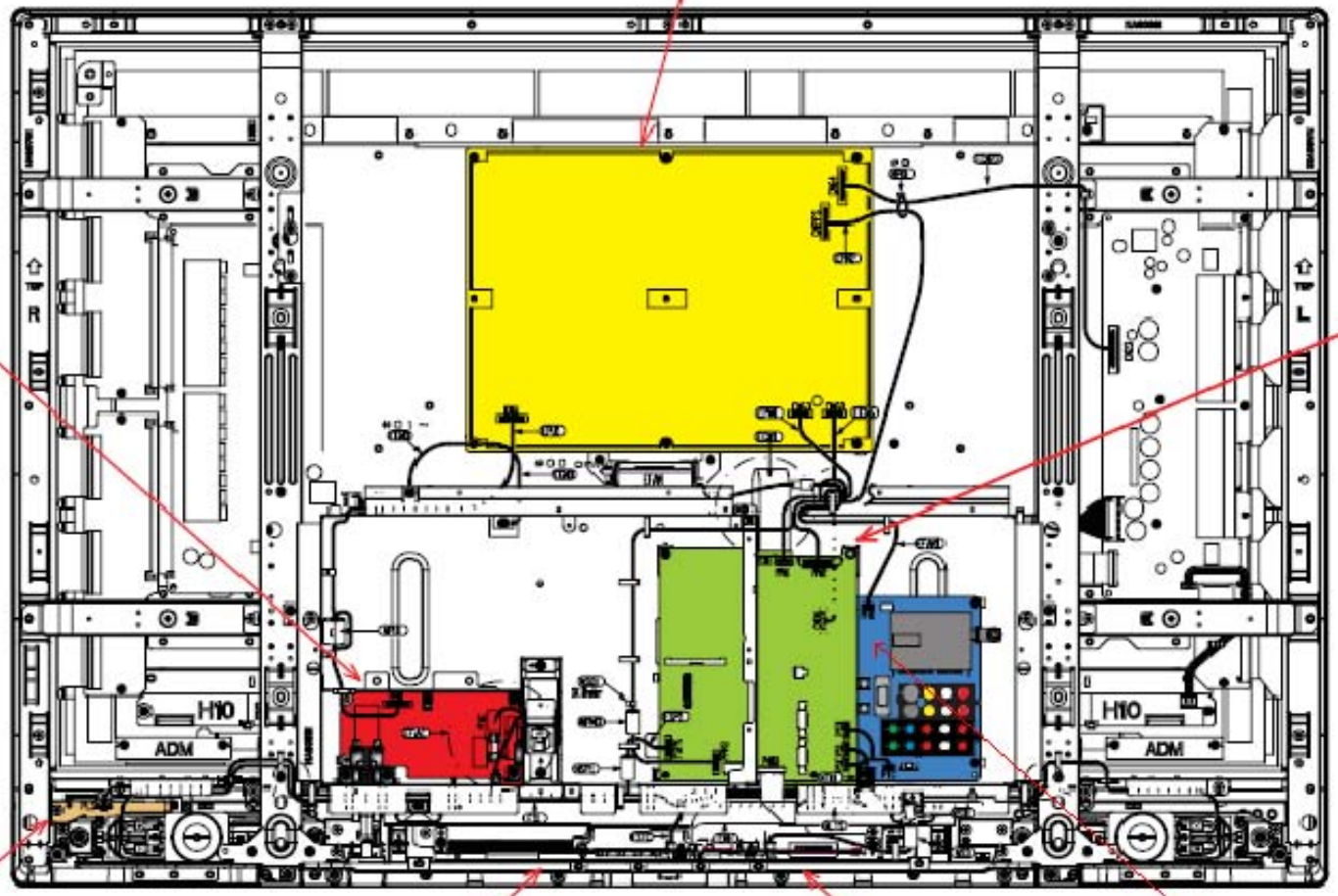
CH 1

NOTES:

1. Chassis not available as a part.
2. Terminal PWB includes, SD PWB, LED PWB and CONTROL PWBs.
3. After replacing the Digi-Main, make sure it has the most current Software Version.
   For Current Version, See http://www.hitachiserviceusa.com

TABLE OF CONTENTS

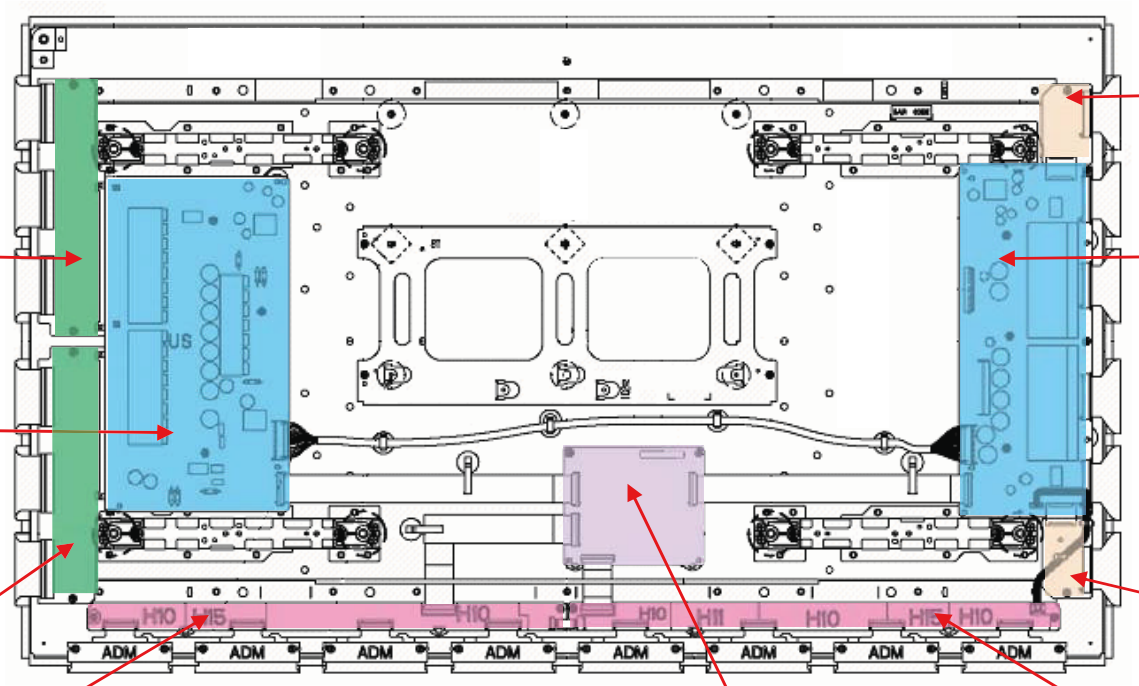
42" MODEL BOARD LAYOUT DIAGRAM



TERMINAL PWB, SD PWB, LED PWB and CONTROL PWB: p/n JP55123

42 (42AE1V) INCH PANEL PWB LAYOUT

Panel p/n DD00938



To Index

42AE1V PANEL CONNECTORS LAYOUT DIAGRAM

(PART NUMBER OF PANEL CONNECTORS)

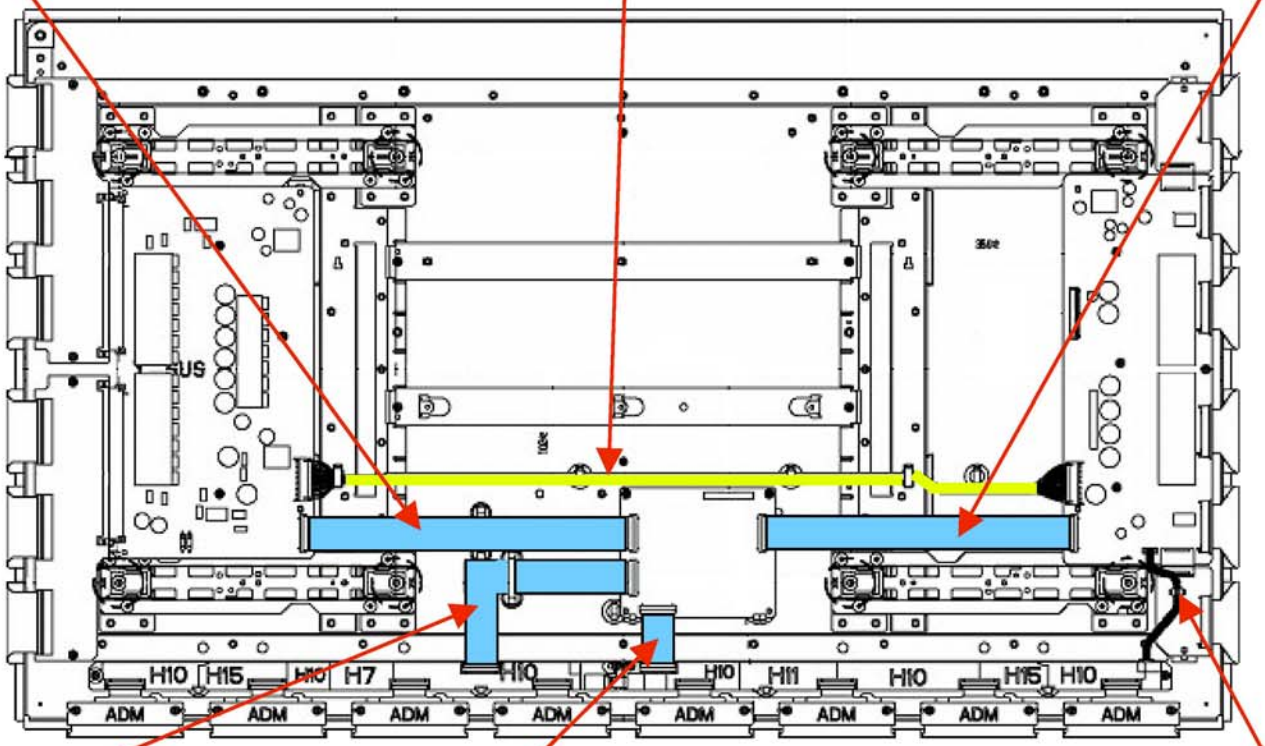
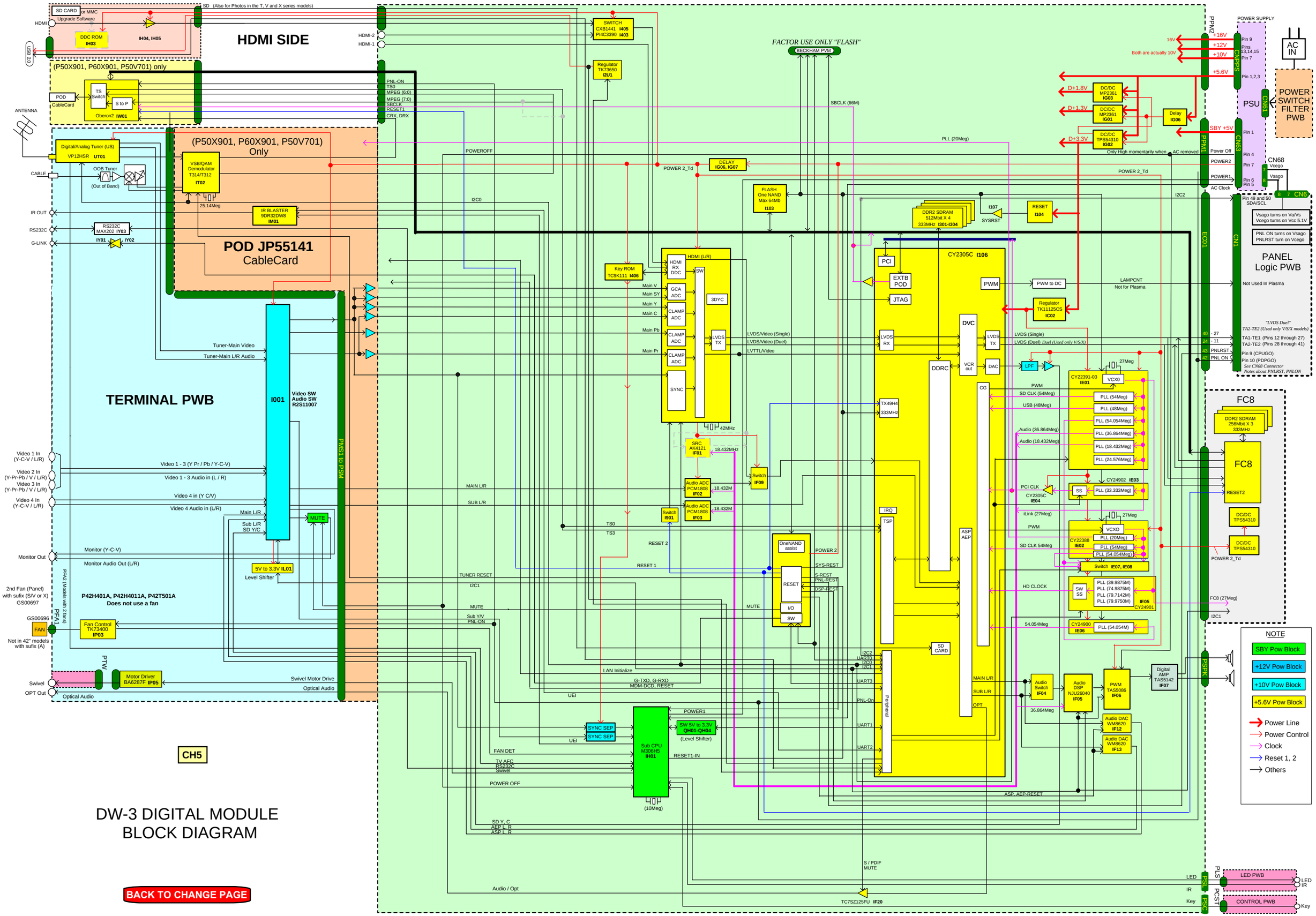


TABLE OF CONTENTS

QUICK REFERENCE PARTS LIST IC'S AND UNITS

No.	Symbol	P#	Description	Function	PWB ASSY
1	F9A1	FN00478	FUSE 51MS 100 L-U 125V 10A	FUSE	FILTER
2	L9A1A	BZ06241	LINE FILTER TF3022H-A172Y10R0-	AC NOISE FILTER	FILTER
3	DN01	CC01871R	LIGHT EMITTING DIODE	RED/ORANGE LED	LED
4	DN02	CC01863R	SML012BC4T	BLUE LED	LED
5	DN03	CC01872R	LIGHT EMITTING DIODE	RED/ORANGE LED	LED
6	HN01	CZ01371U	INFRARED DETECTING UNIT(GP1UE281RK0VF)	IR RECEIVER	LED
7	IN01	CK55475R	1GATE LOGIC IC (TC7SZ14FU)	SCHMITT INVERTER	LED
8	IH01	CK53582R	S-24CS02AFT-TB-G	EEPROM	SD
9	IH04	CK38329R	DIGITAL MONOLITHIC IC (SN74LVC1G126DCK)	SINGLE BUS BUFFER GATE WITH 3-STATE OUTPUTS	SD
10	IH05	CK38329R	DIGITAL MONOLITHIC IC (SN74LVC1G126DCK)	SINGLE BUS BUFFER GATE WITH 3-STATE OUTPUTS	SD
11	IQ01	CK53741R	TC7MBL3245AFK	OCTAL BUS SWITCH	SD
12	IQ02	CK37216R	MONO IC TK11133CSCL	3.3 V VOLTAGE REGULATOR W ON/OFF SW	SD
13	IQ03	CK55511R	1G LOGIC IC (TC7SG17FU)	CLOCK BUFFER	SD
14	JWE1	EY01772R	SD MEMORY CARD 500998-0900	MEMORY CARD JACK	SD
15	HL01	CZ01391	ANALOG MONOLITHIC IC (GP1FSV51TK0F)	OPTICAL MINI JACK FOR DIGITAL AUDIO	TERMINAL
16	I001	CK53531U	R2S11008FP	AUDIO/VIDEO SELECTOR	TERMINAL
17	I002	CK37218R	MONO IC TK11150CSCL	5 V VOLTAGE REGULATOR W ON/OFF SW	TERMINAL
18	I003	CK51331R	TK11100CS	ADJUSTABLE POSITIVE LOW DROPOUT REGULATOR IC	TERMINAL
19	IL01	CK50961R	SN74CB3T3306DCUR	DUAL FET BUS SWITCH	TERMINAL
20	IP03	CK52481R	TK73400TCB-G	ADJUSTABLE VOLTAGE REGULATOR	TERMINAL
21	IT03	CK53612R	TC7PA53FU	2 CHANNEL MULTIPLEXER/DEMULTIPLEXER	TERMINAL
22	IT05	CK37218R	MONO IC TK11150CSCL	5 V VOLTAGE REGULATOR W ON/OFF SW	TERMINAL
23	IT06	CK37605R	IC TK11250CM	5 V VOLTAGE REGULATOR W ON/OFF SW	TERMINAL
24	IT07	CK37605R	IC TK11250CM	5 V VOLTAGE REGULATOR W ON/OFF SW	TERMINAL
25	IT09	CK51151R	UPC3221GV	5 V AGC AMPLIFIER	TERMINAL
26	IY03	CK50027R	DIGITAL MONOLITHIC IC (MAX202IPW)	DUAL RS-232 LINE DRIVER/REC W/+-15KV ESD PROTEC	TERMINAL
27	UT01	HC00701	ENGD6305	ANALOG/DIGITAL TUNER	TERMINAL

TABLE OF CONTENTS



CH5

DW-3 DIGITAL MODULE BLOCK DIAGRAM

BACK TO CHANGE PAGE

HITACHI